

1 ABSTRACT OF THE DISCLOSURE

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3 The method of consolidating a body in any of
4 initially powdered, sintered, fibrous, sponge, or other
5 form capable of compaction, that includes providing
6 flowable pressure transmission particles having
7 carbonaceous and ceramic composition or compositions;
8 heating particles to elevated temperature; locating the
9 heated particles in a bed; positioning the body at the
10 bed, to receive pressure transmission; effecting
11 pressurization of the bed to cause pressure
12 transmission via the particles to the body, thereby to
13 compact and consolidate the body into desired shape,
14 increasing its density, the body consisting essentially
15 of one or more metals selected from the following
16 group: tungsten, rhenium, uranium, tantalum, platinum,
17 copper, gold, hafnium, molybdenum, titanium, zirconium,
18 aluminum, the consolidated body having, along a body
19 dimension, one of the following characteristics:
20 decreasing strength, increasing strength, or decreasing
21 ductility (strain hardening) and increasing ductility
22 (strain hardening).

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